All PHA Recommendations

Tuesday, October 02, 2012 12:22:37 PM

Record #	ABU	Unit	I/R	Item Nbr	Additional Consideration (Recommendation)	ABU Proposal	Resolution	Verifier Comments	Verifier Name	Verified On	Due Date	RR	SOE	Assigned To	Status
16885	U&E	#1 Power Plant	2009	4.1.4.1.1	Concern is that automatic starting of the spare feed water pump will aggravate the low suction pressure situation resulitng from low pressure or loss of deaerator level. Consider providing proximity switch sensor on main boiler feed water pumps (similar to boiler fan motors) to activate APS only when main feed pump fails and not on low boiler feed water header pressure.	The resolution for this action item should be completed in conjunction with the completion of the action items from MITS-2008-2704, #1 Power Plant tripped off (also see IPS 1357259). This recommendation must satisfy the requirements for scenarios 4.1.4.1.1 and 4.1.5.1.1	The suggestion to add proximity switches to the main feedwater pumps was evaluated by engineering, and it was determined that they are not necessary. The idea to only start the spare feedwater pump due to low boiler feedwater pressure if the main feedwater pumps have stopped would create more problems than it would resolve. Also, starting the spare (#1) feedwater pump would not aggravate the low suction pressure to the main pumps, but would also not resolve it. Starting the spare pump would provide a method to recover from the low discharge header event caused by low suction pressure.	I agree with the current resolution.	McGreevy, Donald E.	10/7/2009	7/4/2009	7	S	Rasmussen, Peter G.	Completed

All PHA Recommendations

Tuesday, October 02, 2012 12:22:37 PM

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16886	U&E	#1 Power Plant	2009	4.1.4.1.2	Concern is that the control valve PV-989 (15# Steam to #1 Deaerator) is oversized and causes fluctuations in the deaerator pressure; because of this the controller is not run on automatic. Consider replacing control valve to allow PC-989 to be run in automatic control.	Consider replacing control valve to allow PC-989 to be run in automatic control. The resolution for this action item should be completed in conjunction with the completion of the action items from MITS-2008-2704, #1 Power Plant tripped off (also see IPS 1357259).	This concern continues to be addressed by Designs Engineering and the ABU. The scoping and alternative identification phase has identified potential solutions such as doing nothing, replacing the deaerator, and making piping modifications in order to dedicate a 150/15 letdown station to the deaerators. These alternatives were determined to either not technically feasible, prohibitively cost-ineffective, or both. The ABU and Designs Engineering have agreed that the inlet piping and pump suction to #5 MFP will be inspected for any flow restrictions, and the controls for PC-898 will be tuned to allow it to control the 15 psi steam header in tandem with PC-768. The controls for this arrangement will be moved to Cogen under the API-752/RI-480 Project being performed in 2010 and 2011. This portion will be completed by the end of 8/2011. (Action item reassigned from Pete Rasmussen to Cole Raiford on June 15, 2010) (Action item reassigned from Cole Raiford to Don Reyes on Aug 13, 2010)	#5BFW Pump has been inspected by IMI. Preliminary reports indicate significant damage and errosion making the pump very suceptable to cavitation. IMI is preparing a report to mitigate pump problems.	McGreevy, Donald E.	8/16/2010	8/31/2011	7	S	Reyes, Donald S.	Completed
16887	U&E	#1 Power Plant	2009	21.28.1.1.1	Concern that the P&IDs available on the intranet are not current and accurate. This has been a concern for two previous PHA teams. This team also recommends that the PFDs be brought up to date.	Review #1 Power Plant PFDs and update to be accurate and consistent with refinery standards.	New PFD for #1 Power Plant published to the web on 11/8/10. The PFD drawing number is D-370311-0. Item complete. (Cole Raiford - 11/8/10) (Action item reassigned from Pete Rasmussen to Cole Raiford on June 15, 2010)	PFD reviewed and verified correct	Reyes, Donald S.	11/10/2010	4/23/2010			Raiford, Cole	Completed

All PHA Recommendations

Tuesday, October 02, 2012 12:22:37 PM

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16888	U&E	#1 Power Plant	2009	21.29.1.1.4	Concern is that the #1 Deaerator level to flow cascade control loop does not show on P&ID D-301474-5 Update P&ID to reflect cascade control system	Update P&ID D-301474-5 to show #1 Deaerator level to flow cascade control loop.	Drawings updated to the web. MOC#21976	Verifieds that all items have been corrected on the P&ID for the Power Plant.	Reynolds, Stacey A.	5/24/2010	4/23/2010			Sorley, Andrew P.	Completed
16889	U&E	#1 Power Plant	2009	21.29.1.1.5	Concern is that the #2 Deaerator level to flow cascade control loop does not show on P&ID D-301475-4 Update P&IDs to reflect cascade control system	Update P&ID D-301475-4 to show #2 Deaerator level to flow cascade control loop.	Drawings updated to the web. MOC#21976	Verifieds that all items have been corrected on the P&ID for the Power Plant.	Reynolds, Stacey A.	5/24/2010	4/23/2010			Sorley, Andrew P.	Completed
16890	U&E	#1 Power Plant	2009	21.29.1.1.6	Concern is that PAL-175 does not show on any P&ID Update P&IDs to show of PAL-175.	Update P&ID to show of PAL-175.	Drawings have been updated to the Web	Verified that all items have been corrected on the P&ID for the Power Plant.	Reynolds, Stacey A.	5/24/2010	4/23/2010			Sorley, Andrew P.	Completed
16891	U&E	#1 Power Plant	2009	6.1.12.1.1	Concern is that the electronic igniters for pilot gas to boiler burners do not always function properly. Consider putting electronic igniters on a routine maintenance schedule, or include confirming proper ignitor function as part of startup procedure.	Set up a PM program to ensure that the electronic igniters for pilot gas to boiler burners are tested on a routine basis. Evaluate the need for spare igniters. This recommendation must satisfy the requirements for scenarios 6.1.12.1.1 and 7.1.14.1.1	The electronic igniters are thoroughly checked and cablibrated during the boiler turnaround.	The electronic igniters are PM'd during plant turnaround and are reliable. Having spares on hand is not necessary at this time.	Estella, Aurelio R.	8/25/2009	11/30/2009	8	A	Reyes, Donald S.	Completed
16892	U&E	#1 Power Plant	2009	7.1.23.1.1	Concern is that personnel can be exposed to airborne asbestos from exposed insulation inside #1 Power. Consider consistent marking of asbestos-insulated piping and equipment. Consider providing refresher training on asbestos concerns for all personnel.	Confirm that the #1 Power Plant is consistent with RI-331 'Guidelines for Handling and Removing Asbestos-Containing Materials & Refractory Ceramic Fibers'	Work requests are routinely filed by the plant operators and exposed asbestos are sealed by maintenance to eliminate the hazard as they arise.	Exposed asbestos has been sealed by maintenance. Plant operators routinely write new work requests as other hazards arise.	Estella, Aurelio R.	8/24/2009	11/30/2009	5	H	Estella, Aurelio R.	Completed

All PHA Recommendations

Tuesday, October 02, 2012 12:22:37 PM

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16893	U&E	#1 Power Plant	2009	13.12.1.1.1	Concern is that it may be unclear to less experienced operators that the warm up line must be opened prior to commissioning the desuperheater. Consider developing a written procedure for commissioning steam lines.	Review the general training materials for utilities to ensure that the commissioning of high pressure steam lines are properly addressed. This recommendation must satisfy the requirements for scenarios 13.12.1.1.1 and 16.1.3.1.1	The safety considerations are addressed in the Utilities Training Boiler Operator's Situation Problem #11.	The Situation Problem #11 and practical training by the Head Operators is adequate to address the concern of commisioning steam lines.	Estella, Aurelio R.	8/24/2009	8/31/2009	6	S	Estella, Aurelio R.	Completed
16894	U&E	#1 Power Plant	2009	15.1.3.1.1	Concern is that boiler startup procedure does not address the length of time required for safe boiler warmup. Consider adding guidance and/or warning to boiler startup procedure relating to length of time required for safe boiler warmup.	Review the procedure to determine if additional guidance should be added regarding boiler startup.	A change was implemented in the Boiler Start Up Procedure, Step 40.1, fourth bullet to read "Adjust Moore gas controller to maintain 5 psi burner pressure to slowly warm up the firebox."	Procedure has been revised by Utilities Trainer	Estella, Aurelio R.	9/1/2009	8/31/2009	9	S	Estella, Aurelio R.	Completed
16895	U&E	#1 Power Plant	2009	21.6.1.1.1	Concern is that operators are unable to see present and past process information on boilers and deaerators because strip chart recorder/indicators are bad order. Consider elevating the priority of strip chart recorder and indicator repairs to maintain strip charts in good order on a long-term basis.	Evaluate if the strip charts are maintainable. If not, replace.	The strip chart recorders and indicators were repaired by maintenance starting in May 2009 and completed by June 2009.	The strip charts and recorders are repairred.	Estella, Aurelio R.	8/24/2009	8/31/2009	6	A	Estella, Aurelio R.	Completed
16896	U&E	#1 Power Plant	2009	21.12.1.1.1	Concern is that the existing sampling system for the analyzer shack discharges H2S to the atmoshere. The team is aware that a new sampling system for analyzer shack is planned for 2009 which will replace the existing system. Verify that the new sampling system discharge will be directed into a closed system.	Confirm that the planned modifications to the analyzer shack are completed and include the addition of an H2S Scrubber on the sample discharge.	A "Trace Erase" was installed on the Vent Stack to Atmosphere, the "Trace Erase" is a electric thermo oxidizer which is designed to destroy any contaminates before they are vented. The majority of the total gases routed through the analyzer building (20scfd) are routed to the relief system. There was a modification made to the Trace Erase system to add a Temperature Thermocouple unit to notify the analyzer group that the Trace Erase is working.	I checked with Mark Lee & Stacey Miller from the analyzer group and obtained verification that the Trace Erase has been installed and the Temperature Thermocouple unit installed. The line to relief is in place and in service.	Martinez, Dennis	2/10/2010	4/23/2010	8	S	Zimmerman, Douglas A.	Completed

All PHA Recommendations

Tuesday, October 02, 2012 12:22:37 PM

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16897	U&E	#1 Power Plant	2009	21.29.1.1.1	Concern is that No. 1 Power Plant P&IDs do not appear to be generally current and accurate. In particular, general instrumentation and Concern is that No. 1 Power Plant P&IDs do not appear to be generally current and accurate. In particular, general instrumentation and condensate system documentation is not complete and accurate. Equipment and instrumentation is shown on more than one P&ID and the information is not consistent. Out of service equipment is not clearly designated on P&IDs. Pipe class designation is not shown on P&IDs. Consider review of #1 Power Plant P&IDs and update to be accurate and consistent with refinery P&ID standards.	Review #1 Power Plant P&IDs and update to be accurate and consistent with refinery P&ID standards.	The P&ID's for the #1 Power Plant were walked down and revised to reflect the current configuration. This work was documented on MOC 20838, and the marked up drawings were submitted to the drawing update process for incorporation. The drawings have been updated and issued.	All drawings have been updated and posted to the web.	Reynolds, Stacey A.	4/26/2010	4/23/2010			Rasmussen, Peter G.	Completed
16898	U&E	#1 Power Plant	2009	21.29.1.1.2	Concern is that MFP-3 turbine discharge PSV, PD-611, is not shown in refinery PSV database. Add PD-611 data to database. Verify that all No. 1 Power Plant PSVs are included in the database.	Add PD-611 data to refinery PSV database.	PD-611 has been added to the refinery PSV database.	Reviewed PRD Database. 705A Design Data Report for PD 611 is on line	McGreevy, Donald E.	4/26/2010	4/23/2010			Rasmussen, Peter G.	Completed
16899	U&E	#1 Power Plant	2009	21.29.1.1.3	On P&ID D-329992-10, the line in the upper right labeled #1 Fuel Gas should be #5 Fuel Gas (line 1002-001-002).	Update P&ID D-329992-10, the line in the upper right labeled #1 Fuel Gas should be #5 Fuel Gas (line 1002-001-002).	This P&ID was corrected as described and documented on MOC 20838.	drawing has been posted to the web with the fuels lines correctly numbered.	Reynolds, Stacey A.	4/26/2010	4/23/2010			Rasmussen, Peter G.	Completed

All PHA Recommendations

Tuesday, October 02, 2012 12:22:37 PM

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16900	U&E	#1 Power Plant	2009	20.1.2.1.1	Concern is that a portion of the condensate pumps CP-1/2 suction line is partly in contact with grade, possibly accelerating external corrosion. Consider daylighting the suction line to eliminate contact with grade while providing adequate support for suction line.	Mitigate the cause of external corrosion of the portion of the condensate pumps CP-1/2 suction line which is partly in contact with grade.	The condensate pumps suction piping was reviewed with the ABU and the system analyzed. Any leaks in this system due to corrosion resulting from contact with the ground can be addressed individually should any occur. Leakage of condensate would not create a personnel safety issue nor would it create an environmental issue. Further, the condensate is backed up by water from the RO plant. This piping will either be removed from service or replaced with the implementation of the Power Plant Replacement Project.	Reveiwed plan	McGreevy, Donald E.	4/28/2010	4/23/2010	7	S	Rasmussen, Peter G.	Completed
16901	U&E	#1 Power Plant	2009	21.6.1.1.1	Concern is that operators are unable to see present and past process information on boilers and deaerators because strip chart recorder/indicators are bad order. Consider elevating the priority of strip chart recorder and indicator repairs to maintain strip charts in good order on a long-term basis.	Consider adding the process information to the Honeywell system at Cogen.	The strip chart recorders and indicators has been repaired by maintenance. Plant operators routinely monitor these recorders and indicators.	The strip charts and indicators have been repaired and are adequate to record past and present conditions. Adding the process information to the Honeywell system at Cogen is not feasable at this time as the #1 Power Plant is scheduled to be shut down in a few years.	Estella, Aurelio R.	8/24/2009	8/31/2009	6	A	Estella, Aurelio R.	Completed

Totals: 17 Records